

UTILITY PATENT APPLICATION TRANSMITTAL

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	Attomey Docket No.			51876P442				
	First Inventor You		Your	ng-Doo KIM, et al.				
			HOD FOR ADAPTIVELY MODULATING SIGNAL BY USING LAYERED R USED IN MIMO SYSTEM					
	Express Mail Label No.		bel No.	EV339910116US				

(Only for new nonprovisional applications under 37 CFR 1.53(b))

(Only for new nonprovisional applications under 37 CFR 1.53(b)) Express Wall Label No. EV 339910116US							
APPLICATION ELEMENTS Mail Stop Patent Application Commissioner for Patents							
See MPEP chapter 600 concerning utility patent application	AL	DRES	S <i>TO:</i> P.O. Bo	ox 1450 Iria, VA 22313-1450			
Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing)		7.		OM or CD-R in duplicate iter Program (<i>Append</i>		or	
Applicant claims small entity status. See 37 CFR 1.27.				e and/or Amino A cable, all necessa		e Submission	
3. Specification (Total Page (preferred arrangement set forth below) - Descriptive title of the Invention - Cross References to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix	es <u>34]</u> ,	a. b. c.	Spe i. ii.	Computer Reada cification Sequend CD-ROM or Ci paper Statements ver	ce Listing on D-R (2 copies	:	
- Background of the Invention							
- Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure 4. Drawing(s) (35 U.S.C. 113) [Total Sheets 8] 5. Oath or Declaration (signed) [Total Pages 4] a. Newly executed (original or copy) b. Copy from a prior application (37 C.F.R. § 1.63(d)) (for continuation/divisional with Box 18 completed) i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 6. Application Data Sheet. See 37 CFR 1.76 18. If a CONTINUING APPLICATION, check appropriate box, and supp specification following the title, or in an Application Data Sheet under 37 cm Continuation Divisional Continuation-in-p			37 C.F. (when the English Information Statem Prelimi Return (Should Certified (if foreit Nonput Applica Other:	Nine (9) IDS citation ormation below and in of prior application	ent (if applicable) PEP 503) ized) coument(s) i) der 35 U.S.C. 12 PTO/SB/35 or its rity; Transmittations in the first senter on No: Art Unit:	Power of Attorney) Copies of IDS Citations Application Amended to Reflect Claim of Priority 22 (b)(2)(B)(i). s equivalent. of Formal Drawings; nee of the	
For CONTINUATION OR DIVISIONAL APPS only: The entire disclo considered a part of the disclosure of the accompanying continua be relied upon when a portion has been inadvertently omitted fror	tion or divisions m the submitted	l application application	n and is parts.	hereby incorporated by i	reference. The Inc	corporation can only	
18	B. CORRESP	ONDENC	E ADD	RESS			
Correspondence address below Ostomer Number □ Correspondence address below							
Name							
Blakely, Sokoloff, Taylor & Za							
Address 12400 Wilshire Boulevard, 7th Floor							
City Los Angeles	tate	Califo		Zip Code	90025		
Country	Telephon	е	(310)	207-3800	Fax	(310) 820-5988	
Name (Print/Type) Eric S. Hyman	Name (Print/Type) Eric S. Hyman			Registration No. (Attorney/Agent) 30,139			
Signature O/AO/					Date 11	115/03	
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FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27.

TOTAL AMOUNT OF PAYMENT

(\$)

597.00

Complete if Known						
Application Number						
Filing Date						
First Named Inventor	Young-Doo KIM					
Examiner Name						
Group/Art Unit						
Attorney Docket No.	51876P442					

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)					
Check ☐ Credit card ☐ Money ☐ Other ☐ None	3. ADDITIONAL FEES					
Deposit Account	Large	Entity	Sma	II Entity	,	
Deposit	Fee Code	Fee (\$)	Fee Code	Fee (\$)	- For Description	F - D/4
Account Number 02-2666	1051	130	2051		Fee Description	FeePaid
Deposit	1052	50	2052	65 25	Surcharge - late filing fee or oath Surcharge - late provisional filing fee or	
Account Name Blakely, Sokoloff, Taylor & Zafman LLP	2053	130	2053	120	cover sheet.	
The Commissioner is authorized to: (check all that apply)	1812	2,520	1812	130 2,520	Non-English specification For filing a request for ex parte reexamination	
Charge fee(s) indicated below Credit any overpayments	1804	920 *	1804	920	* Requesting publication of SIR prior to Examiner action	
Charge any additional fee(s) required under 37 CFR §§ 1.16, 1.17, 1.18 and 1.20.	1805	1,840 *	1805	1,840	Requesting publication of SIR after	
Charge fee(s) indicated below, except for the filing fee		.,		.,	Examiner action	
to the above-identified deposit account	1251	110	2251	55	Extension for reply within first month	
FEE CALCULATION	1252	420	2252	210	Extension for reply within second month	
1. BASIC FILING FEE Large Entity Small Entity	1253 1254	950 1,480	2253 2254	475 740	Extension for reply within third month Extension for reply within fourth month	
Fee Fee Fee Fee Description Fee Part	1255	1,210	2255	605	Extension for reply within fifth month	
Code (\$) Code (\$)	1404	330	2401	165	Notice of Appeal	
1001 770 2001 385 Utility filing fee 385.00	1402	330	2402	165	Filing a brief in support of an appeal	
1002 340 2002 170 Design filing fee	1403	290	2403	145	Request for oral hearing	
1004 770 2004 385 Reissue filing fee	1451	1,510	2451	1,510	Petition to institute a public use proceeding	
1005 160 2005 80 Provisional filing fee	1452	110	2452	55	Petition to revive - unavoidable	
SUBTOTAL (1) (\$) 385.00	1453	1,330	2453	665	Petition to revive - unintentional	
0 EVERA OLAMA EEEO	1501 1502	1,330 480	2501 2502	665 240	Utility issue fee (or reissue)	<u> </u>
2. EXTRA CLAIM FEES Extra Fee from Claims below FeePaid	1503	640	2503	320	Design issue fee Plant issue fee	
Total Claims 20 - 20 = 0 x 9.00 = \$0.00	1460	130	2460	130	Petitions to the Commissioner	·
Independent 7 3 4 x 43.00 = \$172.00	1807	50	1807	50	Prosessing fee under 37 CFR 1.17(q)	
Multiple Dependent =	1806	180	1806	180	Submission of Information Disclosure Stmt	
Large Entity Small Entity	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40.00
Fee Fee Fee Fee <u>Fee Description</u> Code (\$) Code (\$)	1809	770	1809	385	Filing a submission after final rejection	
1202 18 2202 9 Claims in excess of 20			1000	•••	(37 ČFR § 1.129(a))	
1201 86 2201 43 Independent claims in excess of 3	1810	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))	
1203 290 2203 145 Multiple Dependent claim, if not paid 1204 86 2204 43 **Reissue independent claims over original	1801	770	2801	385	Request for Continued Examination (RCE)	
1204 86 2204 43 **Reissue independent claims over original patent	1802	900	1802	900	Request for expedited examination	
1205 18 2205 9 **Reissue claims in excess of 20 and over original patent	Other fe	l e (specify)	l		of a design application	
SUBTOTAL (2) (\$) 172.00 **or number previously paid, if greater, For Reissues, see below	* Reduce	d by Basic	Filing Fe	e Paid	SUBTOTAL (3) (\$)	40.00
SUBMITTED BY	Re	egistratio	n No.	1	Complete (if applie	
Name (Print/Type) Eric S. Hyman		tomey/Age		3	10,139 Telephone (310) 20	7/-3800
Signature Cub					Date 12 (3/03

Express Mail No.: EV339910116US DOCKET NO.: 51876P442

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re the	e Application of:	1
You	NG-DOO KIM, ET AL.	Art Group:
Applica	tion No.:	Examiner:
Filed:	·	
For:	APPARATUS AND METHOD FOR ADAPTIVELY MODULATING SIGNA BY USING LAYERED TIME-SPACE DETECTOR USED IN MIMO SYSTEM	
P.O. B	issioner for Patents fox 1450 adria, VA 22313-1450	
_	TRANSMITTAL (OF FORMAL DRAWINGS
	ngs, 8 sheets including 8 Figures. Please posit Account No. 02-2666. A duplicate	ove-identified U.S. Patent Application are the formal charge any additional fees or credit any overpayment e copy of the Fee Transmittal is enclosed for this
Dated:	(2/15/09	Respectfully submitted, Blakely, Sokoloff, Taylor & Zafman LLP Eric S. Hyman, Rog. No. 30,139

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